

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of API (application programming interface) generation for an electronic circuit comprising:

displaying a graphical user interface through which a user can initiate generation of said API, wherein said user utilizes said API to customize functionality of said electronic circuit;

selecting a component from a plurality of components for placement in said electronic circuit, said component representing an implementable function in said electronic circuit;

configuring said selected component via said graphical user interface;

storing descriptive data relative to said selected component and said configuration;

utilizing said interface to access said descriptive data; and

initiating said graphical user interface to invoke a processing of said descriptive data causing an automatic generation of said API, in response to a user input, said API comprising a device-interface and interrupt activity framework for source programming and for controlling said function of said component in said electronic circuit.

2. (Original) The method as recited in Claim 1 wherein said configuring said selected component comprises placing said selected component in said electronic circuit.

3. (Original) The method as recited in Claim 1 wherein said configuring said selected component further comprises setting parameters of said selected component, said parameters relative to said function of said component and to said electronic circuit.

4. (Original) The method as recited in Claim 1 wherein said configuring said selected component further comprises selecting pin values for connecting said component to said electronic circuit.

5. (Original) The method as recited in Claim 1 wherein said API comprises header files.

6. (Original) The method as recited in Claim 1 wherein said API further comprises assembly code files.

7. (Original) The method as recited in Claim 1 wherein said API further comprises include files.

8. (Original) The method as recited in Claim 1 wherein said data is substantially expressed in extensible markup language.

9. (Previously Presented) The method as recited in Claim 1 wherein said interface comprises a plurality of windows.

10. (Currently Amended) A computer-readable medium having computer-usable program code embodied therein for causing a computer system to perform:  
displaying a graphical user interface through which a user can initiate the generation of an API (application programming interface), wherein said user utilizes said API to customize functionality of an electronic circuit;

selecting a component from a plurality of components for placement in ~~an~~ said electronic circuit, said component representing an implementable function in said electronic circuit;

configuring said selected component via said graphical user interface;  
storing descriptive data relative to said selected component and said configuration;

utilizing said graphical user interface to access said descriptive data; and  
initiating said graphical user interface to invoke a processing of said descriptive data causing an automatic generation of said API, in response to a user input, said API comprising a device-interface and interrupt activity framework for source programming and for controlling said function of said component of said electronic circuit.

11. (Original) The computer-usable medium of Claim 10 wherein said configuring said selected component comprises placing said selected component in said electronic circuit.

12. (Original) The computer-usable medium of Claim 10 wherein said configuring said selected component further comprises setting parameters of said selected component, said parameters relative to said function of said selected component and to said electronic circuit.

13. (Original) The computer-usable medium of Claim 10 wherein said configuring said selected component further comprises selecting pin values for connecting said selected component to said electronic circuit.

14. (Original) The computer-usable medium of Claim 10 wherein said API comprises header files.

15. (Original) The computer-usable medium of Claim 10 wherein said API further comprises assembly code files.

16. (Original) The computer-usable medium of Claim 10 wherein said API further comprises include files.

17. (Original) The computer-usable medium of Claim 10 wherein said data is substantially expressed in extensible markup language.

18. (Previously Presented) The computer-usable medium of Claim 10 wherein said graphical user interface comprises a plurality of windows.

19. (Currently Amended) A computer system comprising;

- a bus;
- a display device coupled to said bus;
- a memory unit coupled to said bus;
- a processor coupled to said bus, said processor for executing a method for generating an API (application programming interface) for an electronic circuit comprising:

- displaying a graphical user interface through which a user can initiate generation of said API, wherein said user utilizes said API to customize functionality of said electronic circuit;
- selecting a component from a plurality of components for placement in said electronic circuit, said component representing an implementable function in said electronic circuit;
- configuring said selected component via said graphical user interface;

storing descriptive data relative to said selected component and said configuration;

utilizing said graphical user interface to access said descriptive data; and

initiating said graphical user interface to invoke said processor to process said stored data causing an automatic generation of said API, in response to a user input, said API comprising a device-interface and interrupt activity framework for source programming and for controlling said function of said selected component in said electronic circuit.

20. (Original) The computer system of Claim 19 wherein said configuring said selected component comprises placing said selected component in said electronic circuit.

21. (Original) The computer system of Claim 19 wherein said configuring said selected component further comprises setting parameters of said selected component, said parameters relative to said function of said selected component and to said electronic circuit.

22. (Original) The computer system of Claim 19 wherein said configuring said selected component further comprises selecting pin values for connecting said selected component to said electronic circuit.

23. (Original) The computer system of Claim 19 wherein said API comprises header files.

24. (Original) The computer system of Claim 19 wherein said API further comprises assembly code files.

25. (Original) The computer system of Claim 19 wherein said API further comprises include files.

26. (Original) The computer system of Claim 19 wherein said data is substantially expressed in extensible markup language.

27. (Previously Presented) The computer system of Claim 19 wherein said graphical user interface comprises a plurality of windows.